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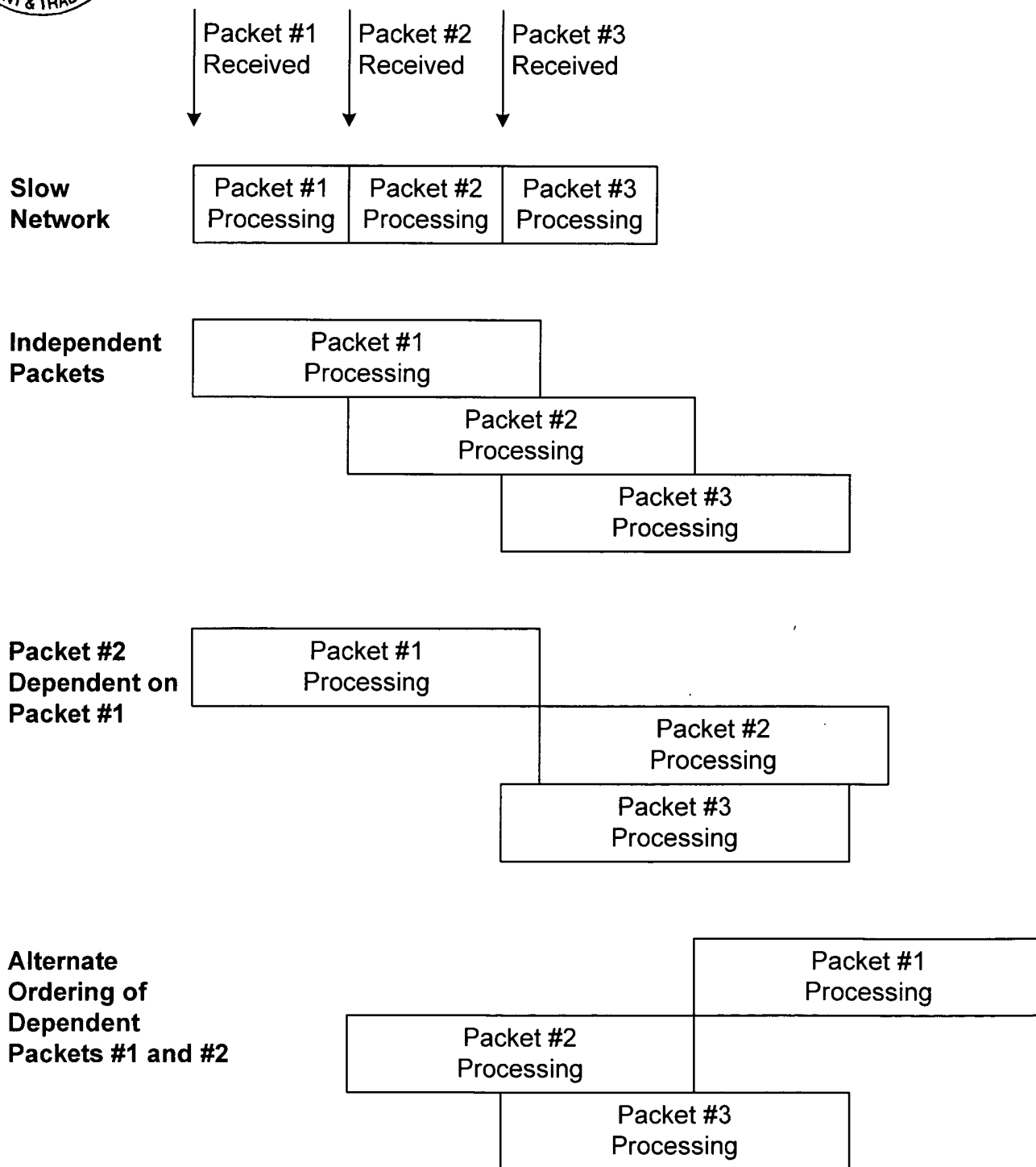
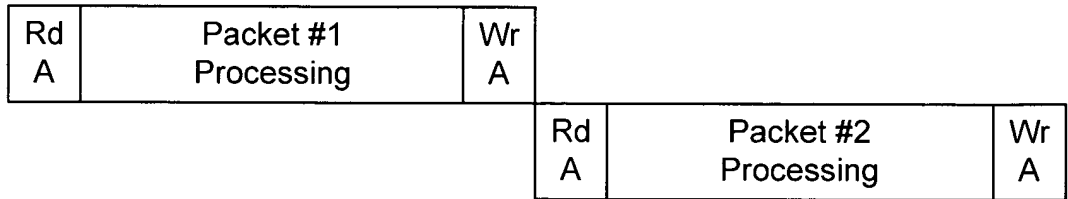


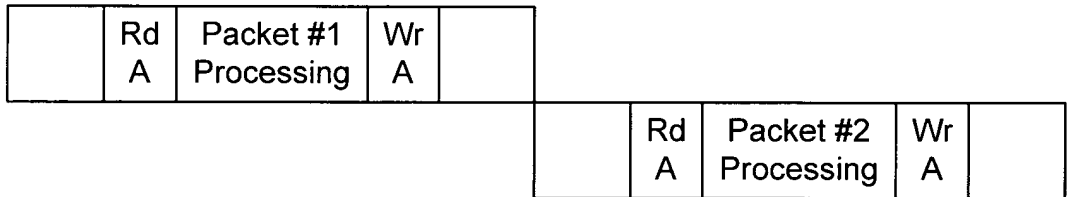
Fig. 1

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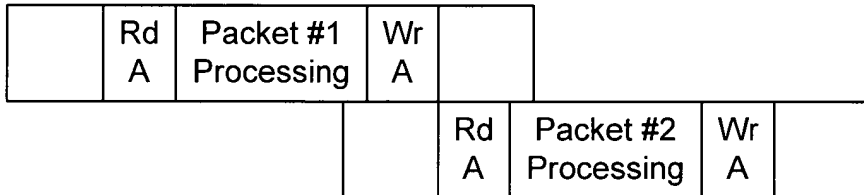
**No Overlap
Possible**



**Non-Optimal
Overlap**



**Optimal
Overlap**



**Alternate
Ordering
Optimal
Overlap**

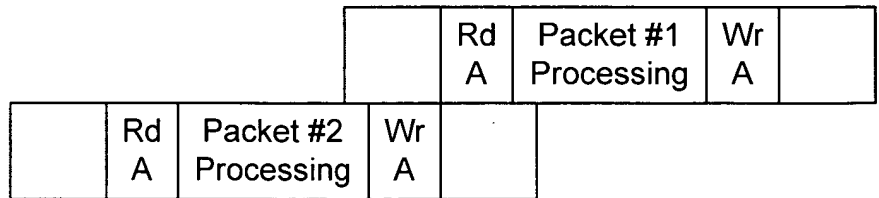


Fig. 2

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300

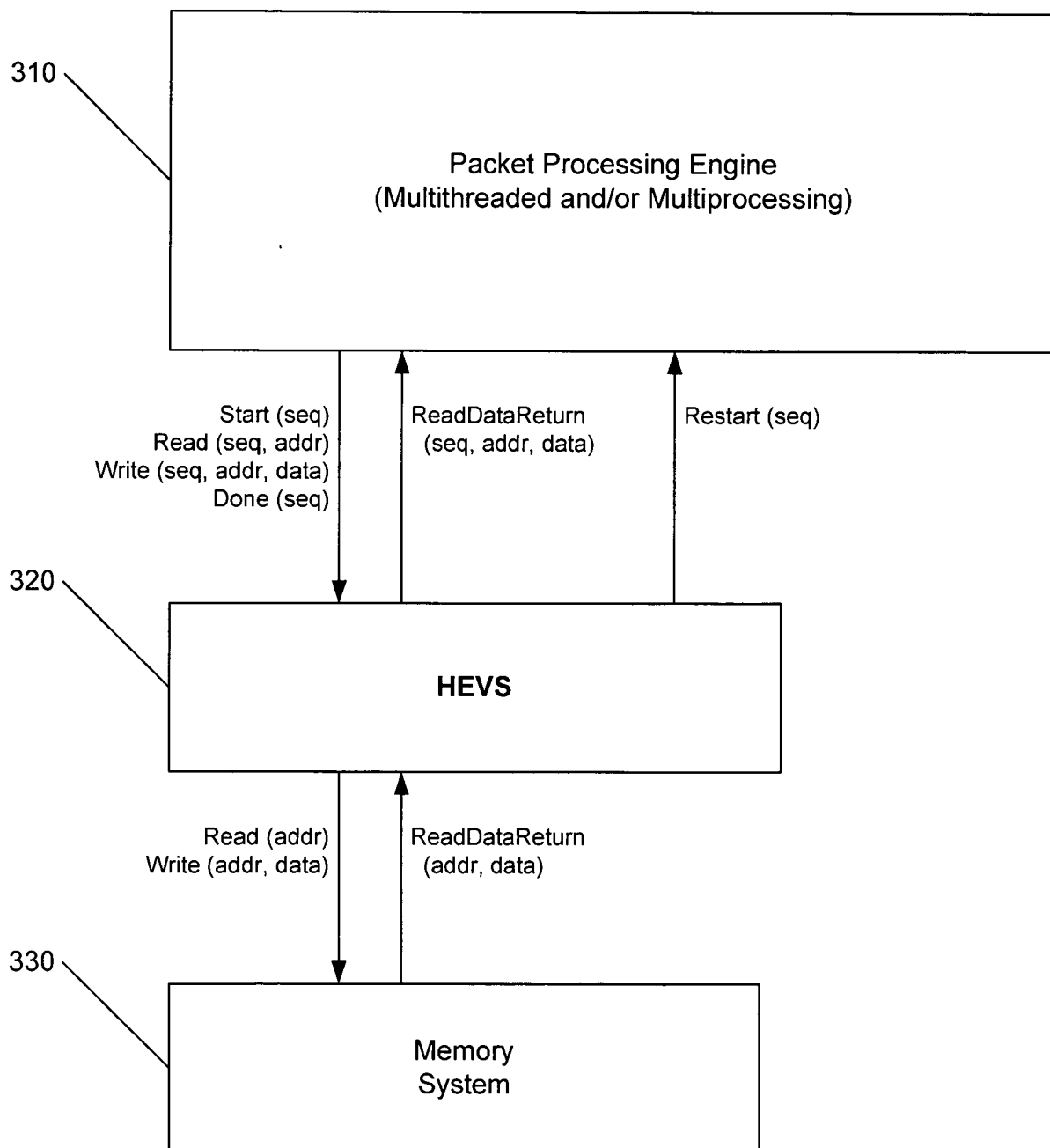


Fig. 3

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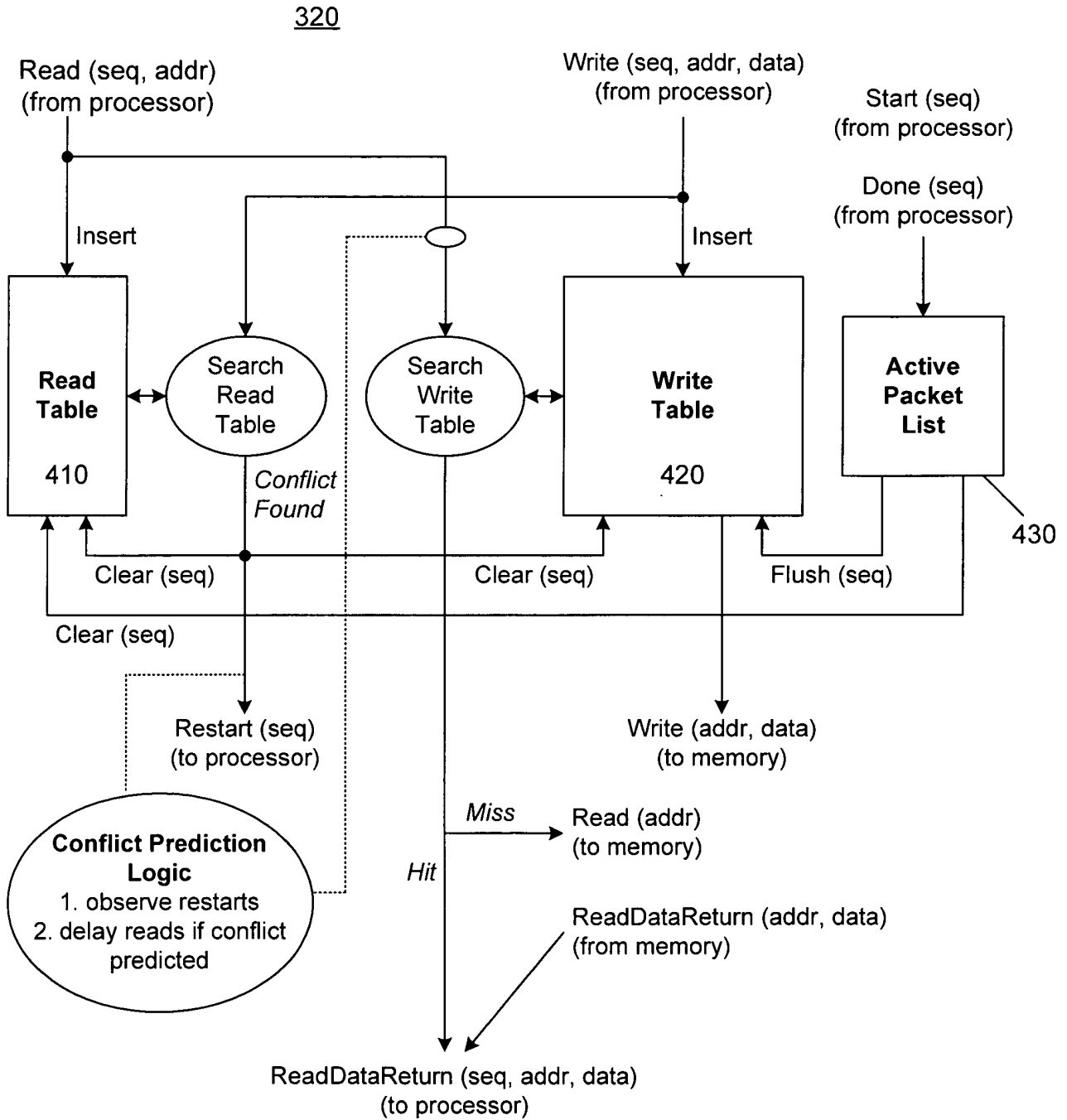
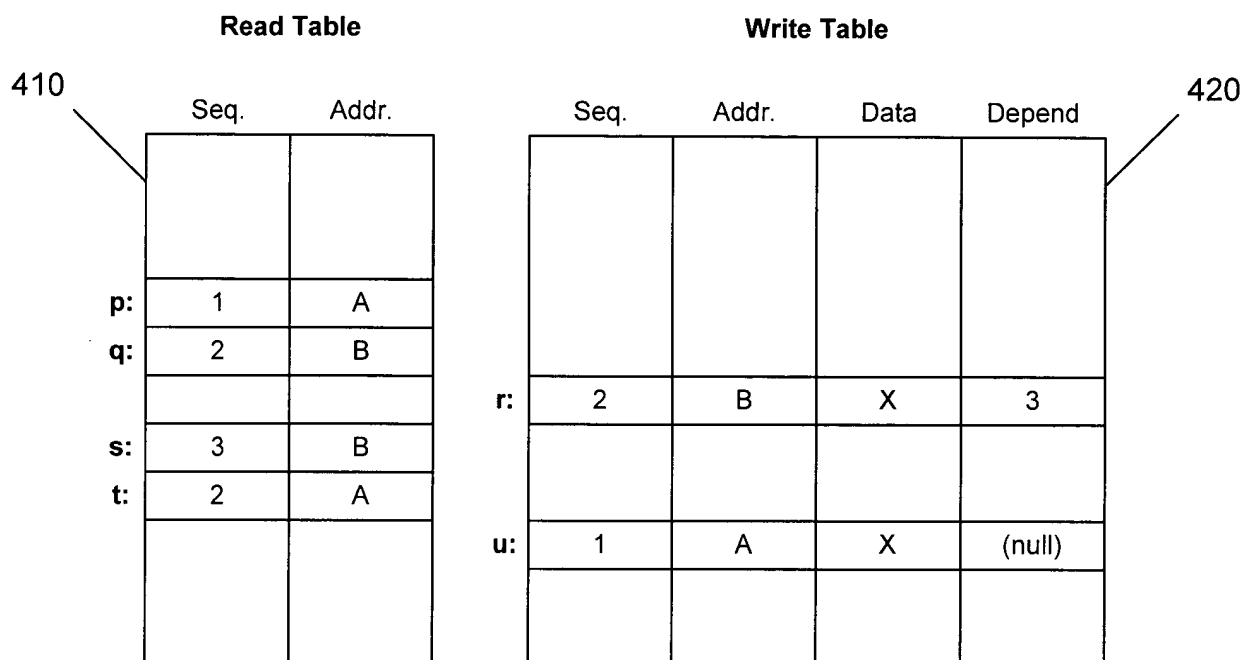


Fig. 4

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Time Sequence:

1. Packet #1 reads location A
Entry **p:** created in Read Table
Write Table is searched, no matches found so memory read is performed
2. Packet #2 reads location B
Entry **q:** created in Read Table
Write Table is searched, no matches found so memory read is performed
3. Packet #2 writes location B
Entry **r:** created in Write Table
Read Table is searched, no conflicts found
4. Packet #3 reads location B
Entry **s:** created in Read Table
Write Table is searched, entry **r:** found, data X forwarded and dependency list updated
5. Packet #2 reads location A
Entry **t:** created in Read Table
Write Table is searched, no matches found so memory read is performed
6. Packet #1 writes location A
Entry **u:** created in Write Table
Read Table is searched for newer sequence read, entry **t:** is found
Conflict is signaled to processor, Packet #2 is restarted
Entry **q:** and all other sequence 2 entries are deleted
Deletion of entry **r:** triggers Packet #3 restart signaled

Fig. 5

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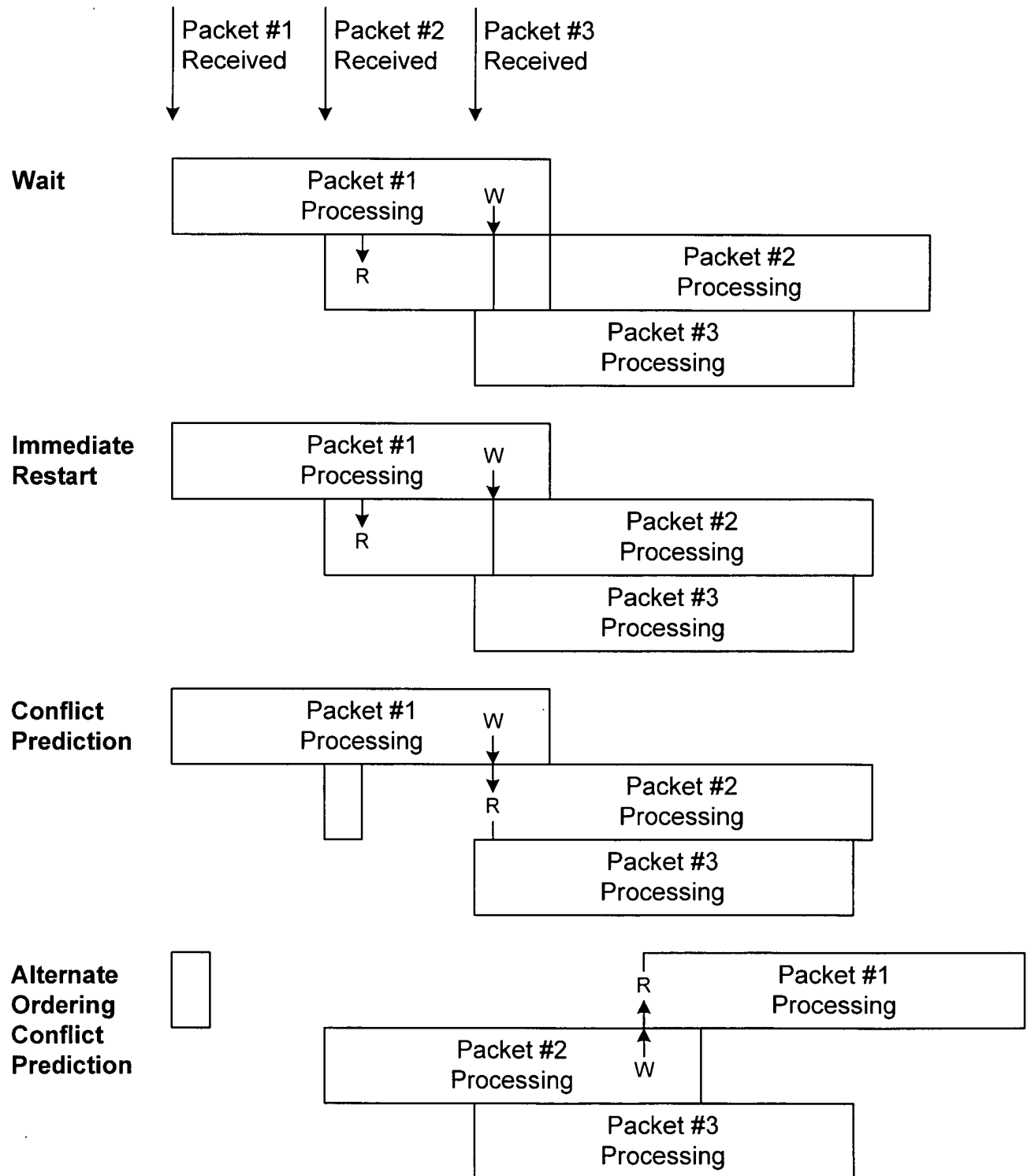


Fig. 6